

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 09/928, S22 B
Source: IFW16
Date Processed by STIC: 12-27-04

ENTERED



IFW16

RAW SEQUENCE LISTING

DATE: 12/27/2004

PATENT APPLICATION: US/09/928,522B

TIME: 12:10:26

Input Set : A:\LL31 12-0015 sequence listing.txt

Output Set: N:\CRF4\12272004\I928522B.raw

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3 <110> APPLICANT: PURINA MILLS, LLC
5 <120> TITLE OF INVENTION: BOVINE LEPTIN PROTEIN, ANTISENSE AND ANTIBODY
7 <130> FILE REFERENCE: LL31.12-0015
9 <140> CURRENT APPLICATION NUMBER: US 09/928,522B
C--> 10 <141> CURRENT FILING DATE: 2001-08-31
12 <150> PRIOR APPLICATION NUMBER: US 08/688,908
13 <151> PRIOR FILING DATE: 1996-07-31
15 <160> NUMBER OF SEQ ID NOS: 8
17 <170> SOFTWARE: PatentIn version 3.3
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 36
21 <212> TYPE: DNA
22 <213> ORGANISM: Artificial
24 <220> FEATURE:
25 <223> OTHER INFORMATION: Primer
27 <400> SEQUENCE: -1
28 ggatccggtc tcaggccgtg ccyatccara aagtc 36
31 <210> SEQ ID NO: 2
32 <211> LENGTH: 30
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial
36 <220> FEATURE:
37 <223> OTHER INFORMATION: Primer
39 <400> SEQUENCE: 2
40 gaattcagcg ctgcayycag ggcttrasrtc 30
43 <210> SEQ ID NO: 3
44 <211> LENGTH: 449
45 <212> TYPE: DNA
46 <213> ORGANISM: Bos taurus
49 <220> FEATURE:
W--> 50 <221> NAME/KEY: DNA
51 <222> LOCATION: (6)..(443)
52 <223> OTHER INFORMATION: Nucleotide sequence (cDNA) of the coding region of bovine
leptin
53 minus the secretory signal
55 <400> SEQUENCE: 3
56 aggccgtgcc tatccagaaa gtccaggatg acaccaaacc cctcatcaag acaattgtca 60
58 ccaggatcaa tgacatctca cacacgcagt ccgtctcctc caaacagagg gtcactgggt 120
60 tggacttcat ccctgggctc caccctctcc tgagtttgct caagatggac cagacattgg 180
62 cgatctacca acagatcctc accagtctgc cttccagaaa tgtgggtccaa atatccaatg 240
64 acctggagaa cctccgggac cttctccacc tgctggccgc ctccaagagc tgccccttgc 300
66 cgcaggtcag ggccctggag agcttggaga gcttgggtgt cgtcctggaa gcctccctct 360
68 actccaccga ggtggtggcc ctgagccggc tgcaggggtc actacaggac atgttgccgc 420
70 agctggacct cagccctgaa tgcagcgct 449

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73 <210> SEQ ID NO: 4

74 <211> LENGTH: 146

75 <212> TYPE: PRT

76 <213> ORGANISM: Bos taurus

79 <220> FEATURE:

W--> 80 <221> NAME/KEY: Protein

81 <222> LOCATION: (1)..(146)

82 <223> OTHER INFORMATION: Amino acid translation of the coding region of bovine leptin
83 minus the secretory signal

85 <400> SEQUENCE: 4

87 Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys Thr Leu Ile Lys Thr

88 1 5 10 15

91 Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr Gln Ser Val Ser Ser

92 20 25 30

95 Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro Gly Leu His Pro Leu

96 35 40 45

99 Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala Ile Tyr Gln Gln Ile

100 50 55 60

103 Leu Thr Ser Leu Pro Ser Arg Asn Val Val Gln Ile Ser Asn Asp Leu

104 65 70 75 80

107 Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala Ala Ser Lys Ser Cys

108 85 90 95

111 Pro Leu Pro Gln Val Arg Ala Leu Glu Ser Leu Glu Ser Leu Gly Val

112 100 105 110

115 Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val Val Ala Leu Ser Arg

116 115 120 125

119 Leu Gln Gly Ser Leu Gln Asp Met Leu Arg Gln Leu Asp Leu Ser Pro

120 130 135 140

123 Glu Cys

124 145

127 <210> SEQ ID NO: 5

128 <211> LENGTH: 445

129 <212> TYPE: DNA

130 <213> ORGANISM: Homo sapiens

133 <220> FEATURE:

W--> 134 <221> NAME/KEY: DNA

135 <222> LOCATION: (1)..(445)

136 <223> OTHER INFORMATION: Nucleotide sequence of human leptin

138 <400> SEQUENCE: 5

139 aagctgtgcc catccaaaaa gtccaagatg acacccaaac cctcatcaag acaattgtca 60

141 ccaggatcaa tgacatttca cacacgcagt cagtctcctc caaacagaaa gtcaccggtt 120

143 tggacttcat tcttgggctc caccocatcc tgaccttata caagatggac cagacactgg 180

145 cagtctacca acagatcctc accagtatgc cttccagaaa cgtgatccaa atatccaacg 240

147 acctggagaa cctccgggat cttcttcacg tgctggcctt ctctaagagc tgccacttgc 300

149 cctggggccag tggcctggag accttggaca gctggggggg tgtcctggaa gcttcaggct 360

151 actccacaga ggtggtggcc ctgagcaggc tgcagggggtc tctgcaggac atgctgtggc 420

153 agctggacct cagccctggg tgctg 445

156 <210> SEQ ID NO: 6

157 <211> LENGTH: 445

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158 <212> TYPE: DNA
159 <213> ORGANISM: Murine (Mouse)
162 <220> FEATURE:
--> 163 <221> NAME/KEY: DNA
164 <222> LOCATION: (1)..(445)
165 <223> OTHER INFORMATION: Nucleotide sequence of murine leptin
167 <400> SEQUENCE: 6
168 aagcagtgcc tatccagaaa gtccaggatg acaccaaacc cctcatcaag accattgtca      60
170 ccaggatcaa tgacatttca cacacgcagt cggatccgc caagcagagg gtcactggct      120
172 tggacttcat tcctgggctt caccctatcc tgagtttgtc caagatggac cagactctgg      180
174 cagtctatca acaggtcctc accagcctgc cttcccaaaa tgtgctgcag atagccaatg      240
176 acctggagaa tctccgagac ctctccatc tgctggcctt ctccaagagc tgctccctgc      300
178 ctccagaccag tggcctgcag aagccagaga gcctggatgg cgtcctggaa gcctcactct      360
180 actccacaga ggtgggtggc ttgagcaggc tgcagggtc tctgcaggac attcttcaac      420
182 agttggatgt tagccctgaa tgctg                                           445
185 <210> SEQ ID NO: 7
186 <211> LENGTH: 167
187 <212> TYPE: PRT
188 <213> ORGANISM: Homo sapiens
191 <220> FEATURE:
--> 192 <221> NAME/KEY: Protein
193 <222> LOCATION: (1)..(167)
194 <223> OTHER INFORMATION: Amino acid translation of human leptin
196 <400> SEQUENCE: 7
198 Met His Trp Gly Thr Leu Cys Gly Phe Leu Trp Leu Trp Pro Tyr Leu
199 1          5          10          15
202 Phe Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys
203          20          25          30
206 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr
207          35          40          45
210 Gln Ser Val Ser Ser Lys Gln Lys Val Thr Gly Leu Asp Phe Ile Pro
211          50          55          60
214 Gly Leu His Pro Ile Leu Thr Leu Ser Lys Met Asp Gln Thr Leu Ala
215 65          70          75          80
218 Val Tyr Gln Gln Ile Leu Thr Ser Met Pro Ser Arg Asn Val Ile Gln
219          85          90          95
222 Ile Ser Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Val Leu Ala
223          100         105         110
226 Phe Ser Lys Ser Cys His Leu Pro Trp Ala Ser Gly Leu Glu Thr Leu
227          115         120         125
230 Asp Ser Leu Gly Gly Val Leu Glu Ala Ser Gly Tyr Ser Thr Glu Val
231          130         135         140
234 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Met Leu Trp Gln
235 145         150         155         160
238 Leu Asp Leu Ser Pro Gly Cys
239          165
242 <210> SEQ ID NO: 8
243 <211> LENGTH: 167
244 <212> TYPE: PRT

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245 <213> ORGANISM: Murine (Mouse)

248 <220> FEATURE:

W--> 249 <221> NAME/KEY: Protein

250 <222> LOCATION: (1)..(167)

251 <223> OTHER INFORMATION: Amino acid translation of murine leptin

253 <400> SEQUENCE: 8

255 Met Cys Trp Arg Pro Leu Cys Arg Phe Leu Trp Leu Trp Ser Tyr Leu

256 1 5 10 15

259 Ser Tyr Val Gln Ala Val Pro Ile Gln Lys Val Gln Asp Asp Thr Lys

260 20 25 30

263 Thr Leu Ile Lys Thr Ile Val Thr Arg Ile Asn Asp Ile Ser His Thr

264 35 40 45

267 Gln Ser Val Ser Ala Lys Gln Arg Val Thr Gly Leu Asp Phe Ile Pro

268 50 55 60

271 Gly Leu His Pro Ile Leu Ser Leu Ser Lys Met Asp Gln Thr Leu Ala

272 65 70 75 80

275 Val Tyr Gln Gln Val Leu Thr Ser Leu Pro Ser Gln Asn Val Leu Gln

276 85 90 95

279 Ile Ala Asn Asp Leu Glu Asn Leu Arg Asp Leu Leu His Leu Leu Ala

280 100 105 110

283 Phe Ser Lys Ser Cys Ser Leu Pro Gln Thr Ser Gly Leu Gln Lys Pro

284 115 120 125

287 Glu Ser Leu Asp Gly Val Leu Glu Ala Ser Leu Tyr Ser Thr Glu Val

288 130 135 140

291 Val Ala Leu Ser Arg Leu Gln Gly Ser Leu Gln Asp Ile Leu Gln Gln

292 145 150 155 160

295 Leu Asp Val Ser Pro Glu Cys

296 165

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 12/27/2004
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2

VERIFICATION SUMMARY

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L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:50 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:80 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:134 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:163 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:192 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:249 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8